



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Docket: SOLK-100

Applicant : Sol KATZEN

Art Unit: 1651

Serial No. : 10/647,305

Filed : 08/26/2003

Title : PROCESS FOR TREATING SEA ALGAE AND  
HALOPHYTIC PLANTS

**ART STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

A copy of the International Search Report from applicant's corresponding International patent application is enclosed.

Enclosed is a copy of U.S. Patent No. 4,986,985 (Grossman et al.). The International Search Report cited Grossman et al. as being particularly relevant when combined with another reference in the same category (Category Y), cited column 1, lines 34 to 41, of Grossman et al. as being relevant, and cited Grossman et al. as being relevant to Claims 1 to 20 of applicant's corresponding International application.

Enclosed is a copy of U.S. Patent No. 5,648,313 (Pohl). The International Search Report cited Pohl as being particularly relevant when combined with another reference in the same category (Category Y), cited column 2, lines 31 to

44, of Pohl as being relevant, and cited Pohl as being relevant to Claims 1 to 20 of applicant's corresponding International patent application.

Enclosed is a copy of Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 489, that is discussed on page 1 of this application.

Enclosed is a copy of Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 89, that is discussed on page 2 of this application.

Enclosed is a copy of Agar, Oregon State University, (food.oregonstate.edu/gums.agar.html), (8/8/2003 AOL), update 7/14/2003, that is discussed on page 2 of this application.

Enclosed is a copy of Encyclopedia Britannica, Micropaedia, Vol. V, (1974), page 426, that is discussed on page 3 of this application.

Enclosed is a copy of What Is Carrageenan?, Tacara, (www.tacara.com.my/articles/carrageenan%20article1), (8/8/2003 AOL). that is discussed on pages 3 and 4 of this application.

Enclosed is a copy of AisonChem, (www.aisonschem.com.cn/carrageenan), (8/8/03 AOL), copyright 2003, that is discussed on pages 4 and 5 of this application.

Enclosed is a copy of Schenck, K., Wound dressings (1): Calcium alginates for moist wound treatment, WundForum Wound Care, (8/10/03 AOL), that is discussed on page 5 of this application.

Enclosed is a copy of Jork, A., et al., Appl. Microbiol. Biotechnol., (2000), 53: 224-229, that is discussed on page 5, of this application.

Enclosed is a copy of Marinalg Welcome,  
([www.marinalg.org/products/algina\\_int](http://www.marinalg.org/products/algina_int)), (8/8/2003 AOL), that is discussed on  
pages 5 and 6 of this application.

Enclosed is a copy of Truus, Kalle, et al., Proc. Estonian Acad. Sci. Chem.,  
(2001), 50, 2, 95-103, that is discussed on pages 6, 7 and 22 of this application.

Enclosed is a copy of Training Manual On Gracilaria Culture and Seaweed  
Processing In China, Chapter III (Cont.), 3) Algin,  
([www.fao.org/docrep/field/003/AB730E/AB730E04](http://www.fao.org/docrep/field/003/AB730E/AB730E04)), (8/10/03 AOL), that is  
discussed on pages 7 and 22 of this application.

A copy of the following references is also enclosed:

Flora Celtica, A Brief History of Scottish Seaweed Use,  
(193.62.154.38/celtica/history.htm), (8/10/2003 AOL).

Wikipedia, Agar, ([www.wikipedia.org/wiki/Agar](http://www.wikipedia.org/wiki/Agar)), (8/8/2003).

Agar, substance obtained from seaweed, The Columbia Encyclopedia, 6<sup>th</sup>  
Ed., (2001), ([www.bartleby.com/65/ag/agar](http://www.bartleby.com/65/ag/agar)), (8/8/2003 AOL).

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NII-REO, Journal of Applied Phycology, 11(6), p. 493-502, 1999, abstract,  
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Saude, N., et al., Process Biochemistry 38 (2002) 273-278.  
Seaweed's Nutritional Value, Fisheries Information Newsletter #95 (Oct.-Dec. 2000), [www.spc.int/coastfish/News/Fish\\_news/95/NIAR\\_9](http://www.spc.int/coastfish/News/Fish_news/95/NIAR_9), (08/10/2003 AOL).

Maneveldt, Gavin W., et al., Of dead man's fingers, cord weed and hanging wrack:..., ([www.botany.uwc.ac.za/gavin/Pop\\_articles/Popart10](http://www.botany.uwc.ac.za/gavin/Pop_articles/Popart10)), (08/10/2003 AOL).

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([www.botony.uwc.ac.za/algae/StudentAssignments/dalenorman98/types](http://www.botony.uwc.ac.za/algae/StudentAssignments/dalenorman98/types)),  
(8/10/2003 AOL).

Tidal Salt Marshes,  
([ag.arizona.edu/azaqua/aquaplants/notes/MARSHES.HTM](http://ag.arizona.edu/azaqua/aquaplants/notes/MARSHES.HTM)), (8/4/2003).  
Wikipedia, Halophyte, ([www.wikipedia.org/wiki/Halophytes](http://www.wikipedia.org/wiki/Halophytes)), (8/4/2003 AOL).

Halophytes and Xerohalophytes,  
([www.botgard.ucla.edu/html/botanyTextbooks/lifeforms/halophytes/](http://www.botgard.ucla.edu/html/botanyTextbooks/lifeforms/halophytes/)), (8/4/2003 AOL).

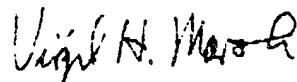
Halophyte DataBase, Salt-Tolerant Plants & Their Use,  
([www.ussl.ars.usda.gov/pls/caliche/halophyte.preface](http://www.ussl.ars.usda.gov/pls/caliche/halophyte.preface)), (8/7/2003 AOL).

What are Halophytes?,  
([www.usf.uni-osnabrueck.de/projects/expo2000/english/descript/descript](http://www.usf.uni-osnabrueck.de/projects/expo2000/english/descript/descript))  
(8/7/2003 AOL).

Training Manual On Gracilaria Culture and Seaweed Processing In Chinga,  
1) Agar, ([www.fao.org/docrep/field/003/AB730E/AB730E03](http://www.fao.org/docrep/field/003/AB730E/AB730E03)), (8/8/2003 AOL).  
Alginate, Algin, Food Resource,  
([food.oregonstate.edu/gums/alginate.html](http://food.oregonstate.edu/gums/alginate.html)), (8/10/2003).

A list of the above-mentioned references is enclosed.

Respectfully submitted,



Virgil H. Marsh  
Reg. No. 23,083

Date Jan. 14, 2005  
Fisher, Christen & Sabol  
Suite 1108  
1725 K Street, N.W.  
Washington, D.C. 20006

Tel.: (202) 659-2000  
Fax: (202) 659-2015



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PTO/SB/08A (08-03)

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		Filing Date	08/26/2003
		First Named Inventor	Sol KATZEN
		Art Unit	1651
		Examiner Name	
Sheet	1	of	14
		Attorney Docket Number	SOLK-100

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Sheet

of 4

**Complete if Known**

Application Number 10/647305

Filing Date 08/26/2003

First Named Inventor Sol K

Examiner Name \_\_\_\_\_

**Attorney Docket N**

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
		Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 489		
		Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 89		
		Agar, Oregon State University, (food.oregonstate.edu/gums.agar.html), (8/8/2003 AOL), update 7/14/2003		
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		AisonChem, (www.aisonschem.com.cn/carrageenan), (8/8/03 AOL), copyright 2003		
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		Jork, A., et al., Appl. Microbiol. Biotechnol., (2000), 53: 224-229		
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		Training Manual On Gracilaria Culture and Seaweed Processing In China, Chapter III (Cont.), 3) Algin, ( <a href="http://www.fao.org/docrep/field/003/AB730E/AB730E04">www.fao.org/docrep/field/003/AB730E/AB730E04</a> ), (8/10/03 AOL)		
		Flora Celtica, A Brief History of Scottish Seaweed Use, ( <a href="http://193.62.154.38/celtica/history.htm">193.62.154.38/celtica/history.htm</a> ), (8/10/2003 AOL)		
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		Sea Algae, ( <a href="http://library.thinkquest.org/J002608/sea_algae.htm">library.thinkquest.org/J002608/sea_algae.htm</a> ), (8/7/2003 AOL).		
		Marine Plants, Algae Lecture, ( <a href="http://darter.ocps.net/classroom/klenk/algae.htm">darter.ocps.net/classroom/klenk/algae.htm</a> ), (8/7/2003 AOL)		
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		Saude, N., et al., Process Biochemistry 38 (2002) 273-278		
		Seaweed's Nutritional Value, Fisheries Information Newsletter #95 (Oct.-Dec. 2000), ( <a href="http://www.spc.int/coastfish/News/Fish_news/95/NIAR_9">www.spc.int/coastfish/News/Fish_news/95/NIAR_9</a> ), (08/10/2003 AOL)		
		Maneveldt, Gavin W., et al., Of dead man's fingers, cord weed and hanging wrack: ..., ( <a href="http://www.botany.uwc.ac.za/gavin/Pop_articles/Popart10">www.botany.uwc.ac.za/gavin/Pop_articles/Popart10</a> ), (08/10/2003 AOL)		

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		Tidal Salt Marshes, ( <a href="http://ag.arizona.edu/azaqua/aquaplants/notes/MARSHES.HTM">ag.arizona.edu/azaqua/aquaplants/notes/MARSHES.HTM</a> ), (8/4/2003)		
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		Halophyte DataBase, Salt-Tolerant Plants & Their Use, ( <a href="http://www.ussl.ars.usda.gov/pls/caliche/halophyte.preface">www.ussl.ars.usda.gov/pls/caliche/halophyte.preface</a> ), (8/7/2003 AOL)		
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		What are Halophytes?, ( <a href="http://www.usf.uni-osnabrueck.de/projects/expo2000/english/descript/descript">www.usf.uni-osnabrueck.de/projects/expo2000/english/descript/descript</a> ) (8/7/2003 AOL)		
		Training Manual On Gracilaria Culture and Seaweed Processing In Chinga, 1) Agar, ( <a href="http://www.fao.org/docrep/field.003/AB730E/AB730E03">www.fao.org/docrep/field.003/AB730E/AB730E03</a> ), (8/8/2003 AOL).		

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